



Robert Greene Sterne  
Ange A. Goldstein  
David K.S. Cornwell  
Robert W. Leonard  
Tacy Goss G. Dutton  
Michelle A. Cimbal  
Michael B. Ray  
Robert E. Sokol  
Eric K. Sieff  
Michael G. Lee  
John M. Covert  
Robert C. Millington  
Donald J. Featherstone  
Timothy J. Shea, Jr.  
Michael V. Messinger  
Justin U. Kim  
Mark Fox Evers  
Jeffrey J. Havelly  
Edison J. Elson  
Donald R. Barowitz  
Peter A. Jackson  
Brian J. Del Buono

Ethelbert J. Haines  
Michael D. Specht  
Kevin W. McCabe  
Clara J. Perry  
Dorinda A. Wood  
Gaby L. Longworth  
Gretchen J. Jevic  
Tacy L. Miller  
Jan E. Winger  
Helen C. Faison  
Cynthia M. Rouchie  
Jan A. Groves  
Sharon A. Carroll  
Andrea E. Pugh  
Michelle K. Hildebrand  
Martha A. Eske  
Scott A. Schaller  
Lee Zhou  
James H. Post  
John T. Hearn  
Mark W. Vogel  
Michael P. Melek

Carla J. Kim  
Doyne A. Sweet  
Paul A. Calvo  
C. Matthew Rizer  
Randall R. Baldwin  
Lori M. Brandes  
Deborah A. Sterling  
Jeremy M. Klass  
Stephanie L. Elmer  
Jeffrey K. Mills  
Scott M. Woodhouse  
Peter A. Scaramo  
Jennah B. Franau  
Christian A. Camarce  
Richard D. Collier  
Patrick P. Haysen  
Ross G. Hicks  
Kerith Hyatt-Robb  
Bonnie Ruenigga Combs  
Alissa K. Sandowicz  
John P. Wierakoon  
Chenghua Luo

Salvador M. Bezos  
Bruce B. Vance  
Justin L. Sher  
Byron L. Polard  
Christopher B. Fennic  
Jeffrey H. Fougere  
Christine Thomas Harris  
Bridgette P. Dwyer  
Katie B. Maltow  
Dorenda L. Lefling  
James C. O'Donnell  
Austin S. Luker  
Jonathan Sorenson  
Gordon J. Bissell  
Tanner Mouton  
Lorella L. DeLoren  
Oran E. Arath  
B. William Roberts III  
Eric C. Young

Joseph E. Mutschelkraus  
Karen Kinszadeh  
Aaron S. Ward  
Ronit Majumdar  
TJ Connel  
Edward J. Sordak  
Christopher P. White  
David C. Burkman  
Jason H. Eschenberg  
Karilyn H. Hoover  
\*Admitted only in Maryland  
\*Admitted only in Virginia  
\*Practice limited to  
Federal Agencies

April 23, 2010

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

WRITER'S DIRECT NUMBER:  
(202) 772-8846  
INTERNET ADDRESS:  
PCALVO@BKGFL.COM

Art Unit 1632

Attn: Mail Stop AF

Re: U.S. Utility Patent Application  
Application No. 10/561,780; Filing or 371(c) Date: July 2, 2007  
For: Tissue Modeling in Embryonic Stem (ES) Cell System  
Inventors: KOLOSOV *et al.*  
Our Ref: 2590.0030002/EJH/PAC

Sir:

Transmitted herewith for appropriate action is an Amendment and Reply Under 37 C.F.R. § 1.116. This document is filed electronically through EFS-Web.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Paul A. Calvo  
Attorney for Applicants  
Registration No. 57,913

EJH/PAC/vb  
Enclosure

1105900\_1.doc